Alienware OptX™ AW2310 User's Guide

About Your Monitor

Setting for Stereoscopic 3D Gaming

Setting Up the Monitor

Operating the Monitor

Troubleshooting

Appendix

Notes, Cautions, and Warnings

NOTE: A NOTE indicates important information that helps you make better use of your monitor.

CAUTION: A CAUTION indicates potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates a potential for property damage, personal injury or death.

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Model AW2310t.

November 2009 Rev. A00

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Back to Contents Page

About Your Monitor

Alienware OptX™ AW2310 User's Guide

- Package Contents
- Product Features
- Identifying Parts and Controls
- Monitor Specifications
- Universal Serial Bus (USB) Interface
- Plug and Play Capability
- LCD Monitor Quality and Pixel Policy
- Maintenance Guidelines

Package Contents

Your monitor ships with the components shown below. Ensure that you have received all the components and Contact Dell if something is missing.

NOTE: Some items may be optional and may not ship with your monitor. Some features or media may not be available in certain countries.

	• Monitor with stand
	• Cable cover
	• Power cable
	• DVI dual link cable

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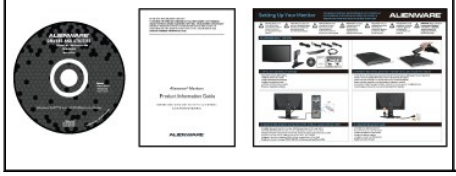
	• HDMI cable
	• USB upstream cable (enables the USB ports on the monitor)
	• Audio cable
	• *Drivers and Documentation* disc • Safety Information • *Setup Guide*

Product Features

The **Alienware OptX™ AW2310** flat panel display has an active matrix, thin-film transistor (TFT), liquid crystal display (LCD), and CCFL backlight. The monitor features include:

- Features support for NVIDIA 3D Vision Technology.
- Low input-lag for intense gaming (on DVI mode).
- 23-inch (584.2 mm) viewable area display.
- 1920 x 1080 resolution, up to 120 Hz, plus full-screen support for lower resolutions.
- Wide viewing angle to allow viewing from a sitting or standing position, or moving side-to-side.
- Tilt, swivel, and vertical extension adjustment capabilities.
- Removable pedestal and Video Electronics Standards Association (VESA) 100 mm mounting holes for flexible mounting solutions.
- Plug and play capability if supported by your system.
- On-Screen Display (OSD) adjustments for ease of set-up and screen optimization.
- Software and documentation media includes an information file (INF) and a Image Color Matching File (ICM).
- Security lock slot.

Identifying Parts and Controls

Front View

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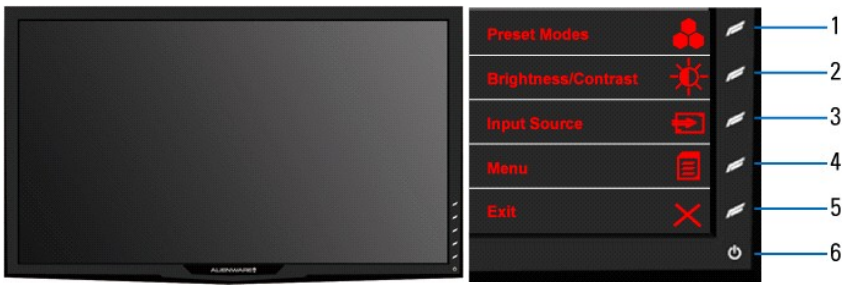
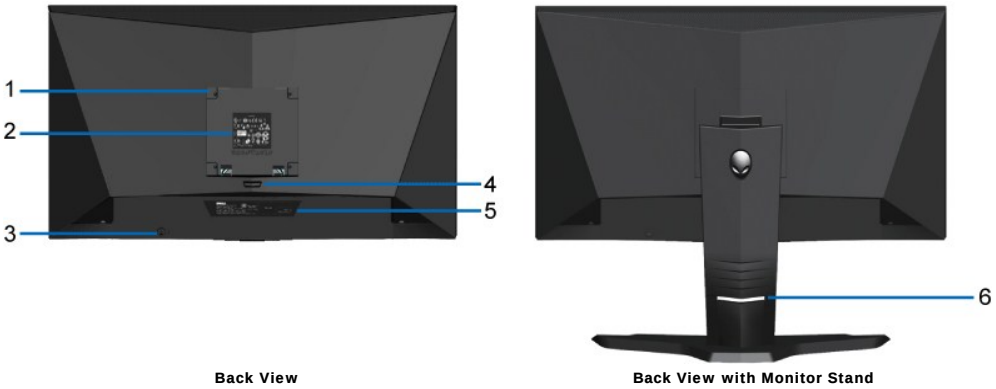


Front View **Front Panel Controls**

Label	Description
1	Shortcut key 1 (Preset Modes)
2	Shortcut key 2 (Brightness/Contrast)
3	Shortcut key 3 (Input Source)
4	Menu
5	Exit
6	Power On/Off

Back View



Back View **Back View with Monitor Stand**

Label	Description	Use
1	VESA mounting holes (100 mm) (behind attached base plate)	To mount the monitor.
2	Regulatory rating label	Lists the regulatory approvals.
3	Security lock slot	To help secure your monitor.
4	Stand release button	To release the stand from the monitor.
5	Barcode serial number label	To contact Dell for technical support.
6	Cable management slot	To organize cables by placing them through the slot.

Side View

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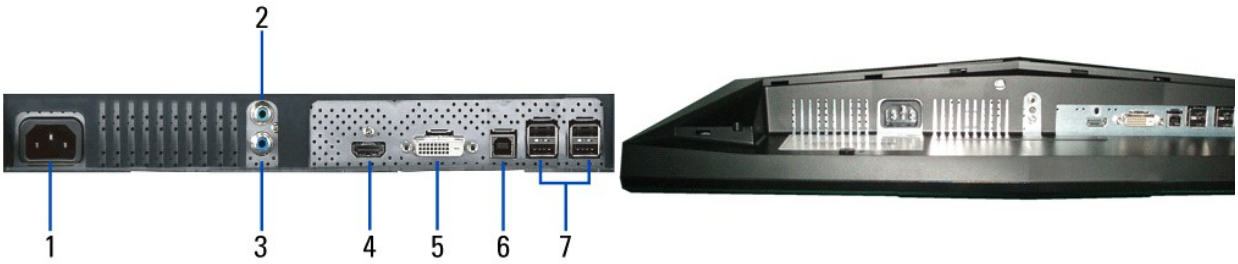
Left view Right view

Bottom View



Detail View Bottom view

Label	Description
1	AC power cord connector
2	Audio in
3	Audio out
4	HDMI connector
5	DVI-D connector
6	USB upstream port
7	USB downstream ports (4)

Monitor Specifications

Flat Panel Specifications

Screen type	Active matrix - TFT LCD
Panel type	TN
Screen dimensions	23-inch (584.2 mm) viewable image size
Horizontal	509.18 mm (20.04 inches)
Vertical	286.41 mm (11.27 inches)
Pixel pitch	0.265 mm

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Viewing angle	160° (vertical) typ., 170° (horizontal) typ.
Luminance output	400 cd/m² (typ.)
Contrast ratio	1000 to 1 (typ.)
Dynamic contrast ratio	Up to 80,000 : 1 (max.)
Faceplate coating	Antiglare with hard-coating 3H
Backlight	CCFL system
Response Time	3 ms gray-to-gray (typ.)
Color depth	16.7 million colors
Color Gamut	83.4%*

* AW2310 color gamut (typical) is based on CIE1976 (83.4%) and CIE1931 (72%) test standards.

Resolution Specifications

Horizontal scan range	30 KHz to 75 KHz (automatics), up to 140 KHz on 1920 x 1080 at 120Hz
Vertical scan range	56 Hz to 76 Hz (automatics), up to 120 Hz at 1920 x 1080
Optimal preset resolution	1920 x 1080 at 60 Hz
Highest preset resolution	1920 x 1080 at 120 Hz

Video Supported Modes

Video display capabilities (DVI playback)	480i/480p/576i/576p/720p/1080i/1080p (Support HDCP)
Video display capabilities (HDMI playback)	480i/480p/576i/576p/720p/1080i/1080p (Support HDCP)

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Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal/Vertical)
720 x 400	31.47	70.0	28.3	-/+
640 x 480	31.47	60.0	25.1	-/-
640 x 480	37.5	75.0	31.5	-/-
800 x 600	37.88	60.0	40.0	+/+
800 x 600	46.88	75.0	49.5	+/+
1024 x 768	48.36	60.0	65.0	-/-
1024 x 768	60.02	75.0	78.7	+/+
1152 x 864	67.5	75.0	108.0	+/+
1280 x 1024	64.0	60.0	108.0	+/+
1280 x 1024	80.0	75.0	135.0	+/+
1680 x1050	65.29	60.0	146.25	-/+
1600 x 1200	75.0	60.0	162.0	+/+
1920 x 1080	67.5	60.0	148.5	+/+

Electrical Specifications

Video input signals	Digital DVI-D TMDS, 600 mV for each differential line, positive polarity at 50 ohm input impedance. HDMI TMDS, 600 mV for each differential line, positive polarity at 50 ohm input impedance or 100 Ohm per differential pair.
Audio input/output signals	Input: PC analog signal: level 2Vrms in maximum. HDMI digital signal: level -15dBFS, L/PCM format, sample rate 32~192KHz. Output: 1.2Vrms without clipping.
AC input voltage/frequency/current	100 to 240 VAC/50 or 60 Hz ± 3 Hz/1.5 A (Max.)
Inrush current	120V:40A (Max.) 240V:80A (Max.)

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Physical Characteristics

Connector type	DVI-D, white connector; HDMI, black connector
Signal cable type	Digital: Detachable, DVI-D, Solid pins, shipped detached from the monitor High Deinition Multimedia Interface: Detachable, HDMI, 19 pins
Dimensions (with stand)	
Height (Compressed)	14.87 inches (377.7 mm)
Height (Extended)	18.41 inches (467.7 mm)
Width	21.63 inches (549.3 mm)
Depth	7.65 inches (194.4 mm)
Dimensions (without stand)	
Height	13.09 inches (332.5 mm)
Width	21.63 inches (549.3 mm)
Depth	3.28 inches (83.2 mm)
Stand dimensions	
Height (Compressed)	12.74 inches (323.7 mm)
Height (Extended)	14.57 inches (370.2 mm)
Width	15.75 inches (400.1 mm)
Depth	7.65 inches (194.4 mm)
Weight	
Weight with packaging	20.59 lbs (9.34 kg)
Weight with stand assembly and cables	16.60 lbs (7.53 kg)
Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	10.76 lbs (4.88 kg)
Weight of stand assembly	4.30 lbs (1.95 kg)

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Environmental Characteristics

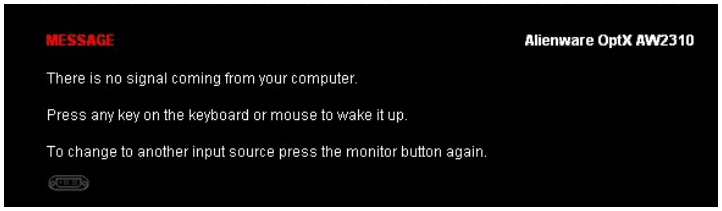
Temperature	
Operating	5° to 35°C (41° to 95°F)
Non-operating	Storage: -20° to 60°C (-4° to 140°F) Shipping: -20° to 60°C (-4° to 140°F)
Humidity	
Operating	10% to 80% (non-condensing)
Non-operating	Storage: 5% to 90% (non-condensing) Shipping: 5% to 90% (non-condensing)
Altitude	
Operating	3,657.6 m (12,000 ft) max
Non-operating	12,192 m (40,000 ft) max
Thermal dissipation	256.08 BTU/hour (maximum) 187.79 BTU/hour (typical)

Power Management Modes

If you have VESA's DPM™ compliance display card or software installed in your computer, the monitor can automatically reduce its power consumption when not *Save Mode**. If the computer detects input from keyboard, mouse, or other input devices, the computer automatically resumes functioning. The following table sh signaling of this automatic power saving feature:

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	55 W (typical 2D Mode)/75 W (maximum)
Active-off mode	Inactive	Inactive	Blanked	Amber (Breathing)	Less than 2 W
Switch off	-	-	-	Off	Less than 1 W

The OSD will only function in the *normal operation* mode. When the **Exit** control is touched in Active-off mode, one of the following messages will be displayed:


MESSAGE
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There is no signal coming from your computer.
Press any key on the keyboard or mouse to wake it up.
To change to another input source press the monitor button again.

or

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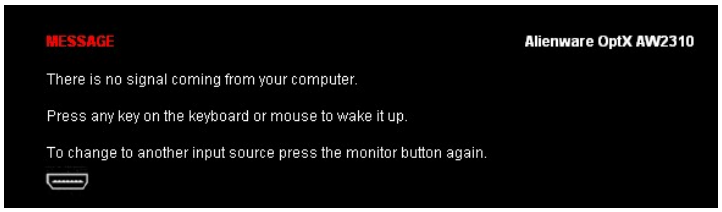
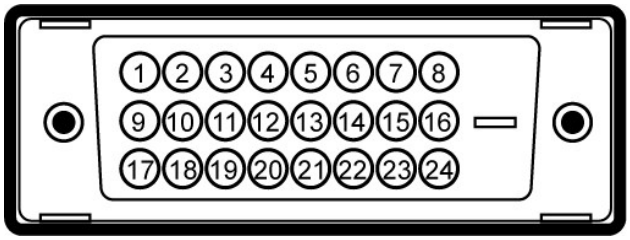

MESSAGE
Alienware OptX AW2310
There is no signal coming from your computer.
Press any key on the keyboard or mouse to wake it up.
To change to another input source press the monitor button again.

Activate the computer and the monitor to gain access to the OSD.

* Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

Pin Assignments

DVI Connector



Pin Number	24-pin Side of the Connected Signal Cable
1	TMDS RX2-
2	TMDS RX2+
3	TMDS Ground
4	TMDS RX4-
5	TMDS RX4+
6	DDC Clock
7	DDC Data
8	Floating

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9	TMDS RX1-
10	TMDS RX1+
11	TMDS Ground
12	TMDS RX3-
13	TMDS RX3+

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Back to Contents Page

Appendix

Alienware OptX™ AW2310 User's Guide

- Safety Instructions
- FCC Notice (U.S. Only) and Other Regulatory Information
- Contacting DELL

WARNING: Safety Instructions

WARNING: Use of controls, adjustments, or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards, and/or mechanical hazards.

For information on safety instructions, see the *Product Information Guide*.

FCC Notices (U.S. Only) and Other Regulatory Information

For FCC notices and other regulatory information, see the regulatory compliance website located at: http://www.dell.com/regulatory_compliance.

Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit **support.dell.com**.
2. Verify your country or region in the **Choose A Country/Region** drop-down menu at the bottom of the page.
3. Click **Contact Us** on the left side of the page.
4. Select the appropriate service or support link based on your need.
5. Choose the method of contacting Dell that is convenient for you.

Back to Contents Page

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Back to Contents Page

Setting Up Your Monitor

Alienware OptX™ AW2310

If you have an Alienware™ desktop or an Alienware™ portable computer with internet access

1. Go to **http://support.dell.com,** enter your service tag, and download the latest driver for your graphics card.

2. After installing the drivers for your graphics card, attempt to set the resolution to **1920x1080** again.

NOTE: If you are unable to set the resolution to 1920x1080, contact Dell for information about graphics card that supports these resolutions.

Back to Contents Page

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Back to Contents Page

Setting Up Your Monitor

Alienware OptX™ AW2310

If you have non Alienware™ desktop, portable computer, or graphic card

Microsoft® Windows® XP:

1. Right-click on the desktop and click **Properties**.
2. Select the **Settings** tab.
3. Select **Advanced**.
4. Identify your graphics card controller's supplier from the description at the top of the window (for example, NVIDIA, ATI, Intel® etc.).
5. Refer to the graphic card provider website for updated driver (for example, http://www.ATI.com OR http://www.NVIDIA.com).
6. After installing the drivers for your graphics card, attempt to set the resolution to **1920x1080** again.

Windows Vista® or Windows 7:

1. Right-click on the desktop and click **Personalization**.
2. Click **Change Display Settings**.
3. Click **Advanced Settings**.
4. Identify your graphics controller supplier from the description at the top of the window (e.g. NVIDIA, ATI, Intel etc.).
5. Refer to the graphic card provider website for updated driver (for example, http://www.ATI.com OR http://www.NVIDIA.com).
6. After installing the drivers for your graphics card, attempt to set the resolution to **1920X1080** again.

NOTE: If you are unable to set the resolution to 1920x1080, please contact the manufacturer of your computer or consider purchasing a graphics adapter th resolution of 1920x1080.

Back to Contents Page

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Back to Contents Page

Operating the Monitor

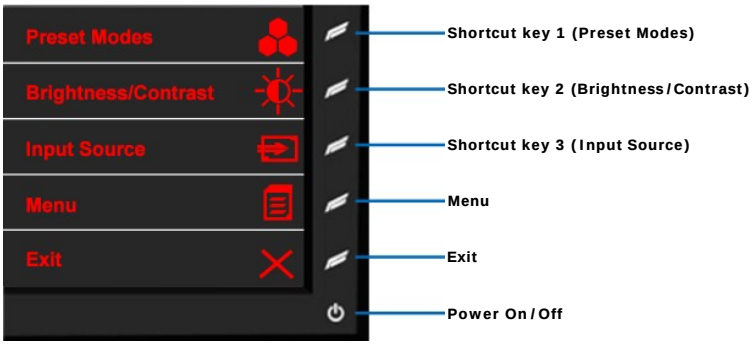
Alienware OptX™ AW2310 User's Guide

- Using the On-Screen Display (OSD) Menu
- Setting the Maximum Resolution
- Using the Tilt, Swivel, and Vertical Extension

Using the On-Screen Display (OSD) Menu

Using the OSD Controls

Use the controls on the front of the monitor to select a shortcut key function, to navigate the OSD menu and to adjust the characteristics of the image being displayed.



Icon		Description
	Shortcut key 1 (Preset Modes)	Select this shortcut to choose from a list of preset color modes.
	Shortcut key 2 (Brightness/Contrast)	Select this shortcut to activate Brightness/Contrast adjustment.
	Shortcut key 3 (Input Source)	Select this shortcut to select between different video signals that may be connected to your monitor.
	Menu	Launch the Menu. See Navigating the Menu.
	Exit	Exit the On-Screen Display menu.
	Power On/Off	Turn monitor on or off. The green LED indicates the monitor is on and fully functional. A breathing amber LED indicates it is in power save mode.

Navigating the Menu

1. Select to launch the menu.

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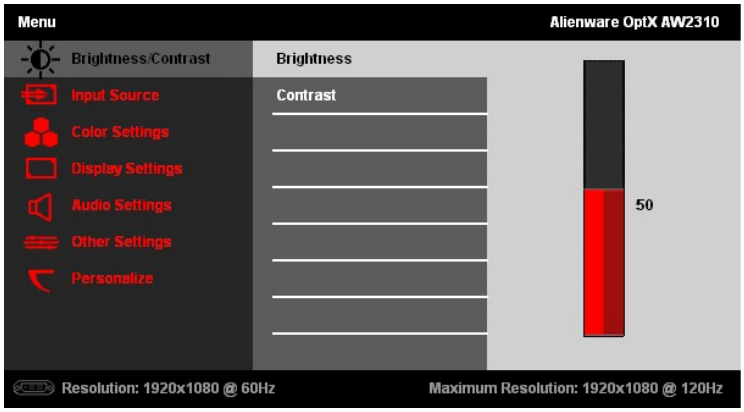
2. Select or to move between the setting options. As you move from one icon to another, the option name is highlighted. See Menu Options for a complete list of all the options available for the monitor.

3. Select to move to the Sub-menu.

4. Select or to move between the setting options.

5. Select to access the slider bar for adjusting the value of the setting.



6. Select or , to adjust the value of the setting.

7. Select to return to the sub-menu.

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8. Select again to return to the Main menu.

9. Select to exit from the On-screen Display menu.

Menu Options

Icon	Menu and Submenus	Description
	Brightness / Contrast	Use this menu to access the **Brightness / Contrast** adjustment.

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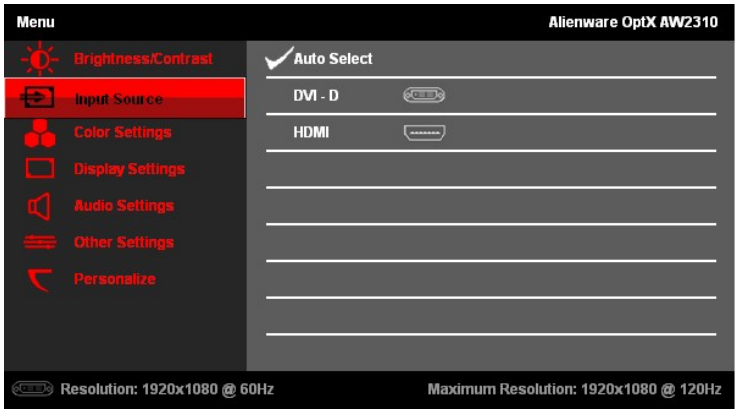
Brightness	**Brightness** adjusts the luminance of the backlight.
Contrast	Adjust Brightness first, and then adjust **Contrast** only if further adjustment is necessary. The **Contrast** function adjusts the degree of difference between darkness and lightness on the monitor screen.
Input Source	Use the **Input Source** menu to select between different video signals that may be connected to your monitor.



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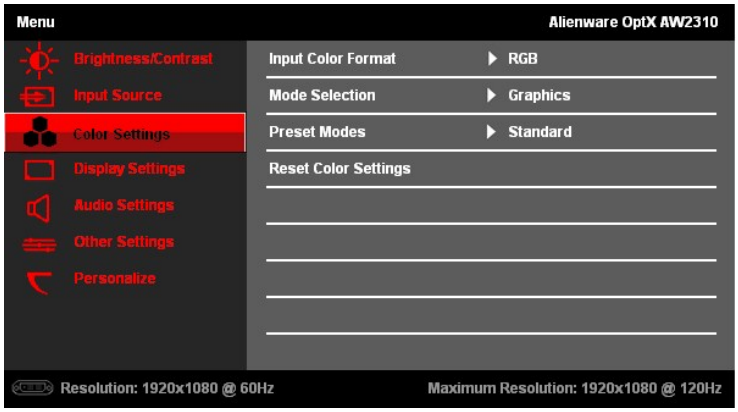
	Auto Select	Select **Auto Select** to scan for available input signals.
	DVI-D	Select **DVI-D** input when you are using the Digital (DVI) connector.
	HDMI	Select **HDMI** input when you are using the HDMI connector.
	Color Settings	Use the **Color Settings** to adjust the color setting mode and color temperature. There are different color setting sub-menus for Graphics and Video mode selection. 

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Input Color Format	Allows you to set the color format of the video input signal to: • **RGB**: Select this option if your computer, DVD player, or Game Console is using the HDMI or DVI cable to connect to the disp • **YPbPr**: Select this option if your DVD player, Game Console, or other device connected to the display only supports YPbPr format.
Mode Selection	Allows you to set the display mode to: • **Graphics**: Select this mode if your monitor is connected to your computer. • **Video**: Select this mode if you are enjoying video movies on your display. For DVD playback, selecting this mode gives a bett viewing experience. **NOTE:** Depending upon the Display Mode you select the Preset Modes available for your monitor changes.
Preset Modes	Allows you to choose from a list of preset color modes. In the **Graphics** mode, you can set the color to the following preset values: • **Standard**: Loads the monitor's default color settings. This is the default preset mode. • **Multimedia**: Loads color settings ideal for multimedia applications. • **Game**: Loads color settings ideal for most gaming applications. • **Warm**: Increase the color temperature. The screen appears warmer with a red/yellow tint. • **Cool**: Decreases the color temperature. The screen appears cooler with a blue tint. • **Custom (RGB)**: Allows you to manually adjust the color settings. In the **Video** mode, you can set the color to the following preset values: • **Movie**: Loads color settings ideal for movies. This is the default preset mode. • **Game**: Loads color settings ideal for game. • **Nature:** Loads color settings ideal for nature.

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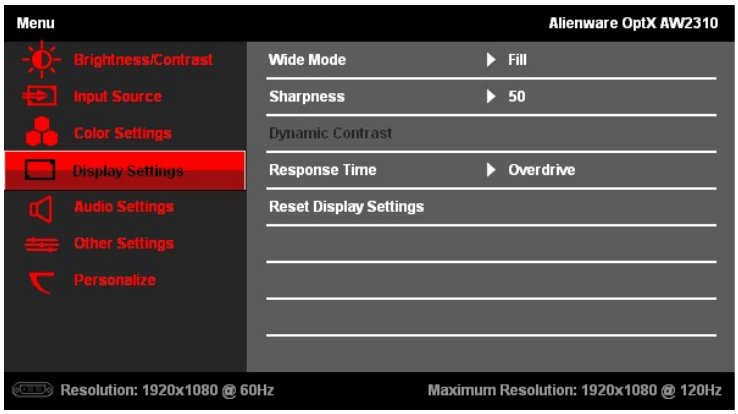
	Hue	This feature can shift color of video image to green or purple. This is used to adjust the desired flesh tone color. Decrease the value of the Hue, increases the green shade of the video image. Increase the value of the Hue, increases the purple shade of the video image. **NOTE:** Hue adjustment is available only for video input.
	Saturation	This feature can adjust the color saturation of the video image. Decrease the value of the Saturation, increases the monochrome appearance of the video image. Increase the value of the Saturation, increases the colorful appearance of the video image. **NOTE:** Saturation adjustment is available only for video input.
	Reset Color Settings	Resets your monitor's color settings to the factory defaults.
	Display Settings	

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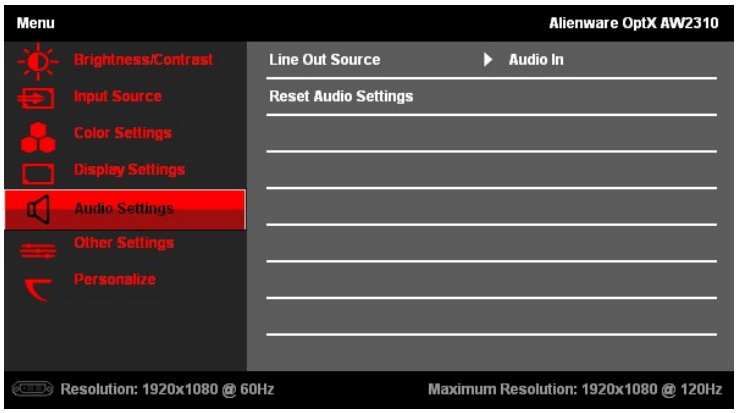
	Wide Mode	Adjust the image ratio as Fill, Aspect, or 4:3.
	Sharpness	This feature can make the image look sharper or softer.
	Dynamic Contrast	Dynamic Contrast provides higher contrast if you choose Game preset, Movie Preset, and Nature Preset. **NOTE:** Brightness control is disabled while in Dynamic Contrast mode and will be grayed out.
	Response Time	This function can improve the response time.
	Reset Display Settings	Reset the image to the original factory setting.
	Audio Settings	

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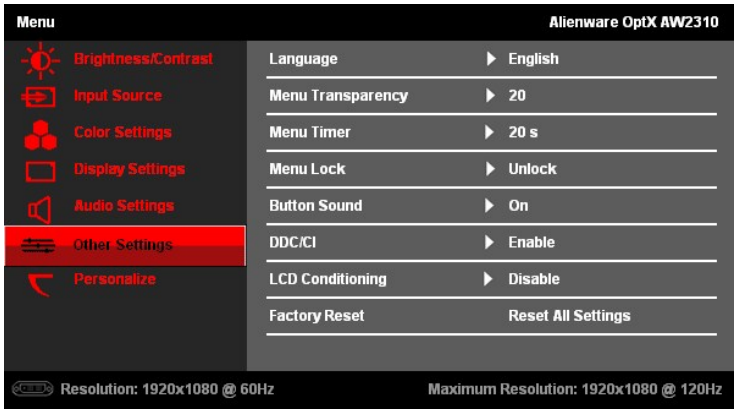
	Line Out Source	Use the **Line Out Source** menu to select between different audio signals that may be connected to your monitor.
	Reset Audio Settings	Reset the audio to the original factory setting.
	Other Settings	
	Language	Language option to set the OSD display to one of eight languages (English, Espanol, Francais, Deutsch, Brazilian Portuguese, Russian, Simplified Chinese, or Japanese).
	Menu Transparency	This function is used to change the OSD background from opaque to transparent.
	Menu Timer	This function is used to change the slider in 1 second increments, from 5 to 60 seconds.
	Menu Lock	Controls user access to adjustments. When 'Lock' is selected, no user adjustments are allowed. **NOTE:** When the OSD is locked, touch the first OSD control above the Power On/Off control for about 15 seconds to unlock it.

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Button Sound	This function is used to turn on/off the button sound.
DDC/CI	DDC/CI (Display Data Channel/Command Interface) allows your monitor parameters (brightness, color balance, etc.) to be adjusta using software on your computer.

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Back to Contents Page

Setting Up Your Monitor

Alienware OptX™ AW2310

Setting the display resolution to 1920x1080(maximum)

For maximum display performance with the Microsoft® Windows® operating systems, set the display resolution to 1920x1080 pixels by performing the following steps:

Microsoft® Windows® XP:

1. Right-click on the desktop and click **Properties**.

2. Select the **Settings** tab.

3. Move the slider-bar to the right by pressing and holding the left mouse-button and adjust the screen resolution to **1920x1080.**

4. Click **OK**.

Windows Vista® or Windows 7:

1. Right-click on the desktop and click **Personalization**.

2. Click **Change Display Settings**.

3. Move the slider-bar to the right by pressing and holding the left mouse-button and adjust the screen resolution to **1920X1080**.

4. Click **OK**.

If you do not see **1920x1080** as an option, you may need to update your graphics driver. Please choose the scenario below that best describes the computer you are using, and follow the provided directions:

1: **If you have an Alienware desktop or an Alienware portable computer with internet access.**

2: **If you have non Alienware desktop, portable computer, or graphic card.**

Back to Contents Page

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Alienware OptX™ AW2310

User's Guide

Setting the display resolution to 1920x1080 (maximum)

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Model AW2310t.

November 2009 Rev. A00

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Back to Contents Page

Setting Up the Monitor

Alienware OptX™ AW2310 User's Guide

- Attaching the Stand
- Connecting the Monitor
- Organizing the Cables and Attaching the Cable Cover
- Removing the Stand
- Wall Mounting (Optional)

Attaching the Stand

NOTE: The stand is detached from the monitor when it is shipped from the factory.

Remove the monitor cover and place the monitor on it.

1. Fit the two tabs on the upper part of the stand into the grooves on the back of the monitor.
2. Lower the stand so that the stand snap onto the monitor mounting area.

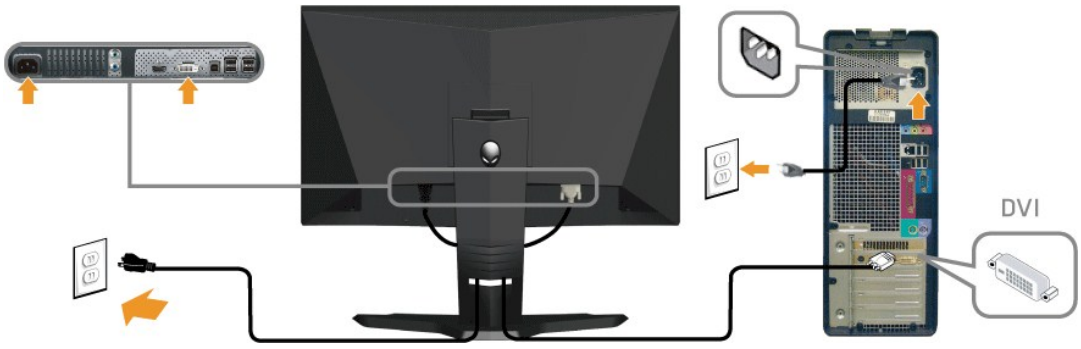
Connecting Your Monitor

WARNING: Before you begin any of the procedures in this section, follow the Safety Instructions.

To connect your monitor to the computer:

1. Turn off your computer and disconnect the power cable.
2. Connect your monitor to your computer using ONLY ONE of the following cables: the DVI (digital DVI-D) or the HDMI cable. Use both the cables only when they are connected to two different computers with appropriate video systems.

Connecting the White DVI Cable



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Connecting the HDMI Cable

NOTE: You can connect your Alienware display to an Xbox, PlayStation or DVD player.

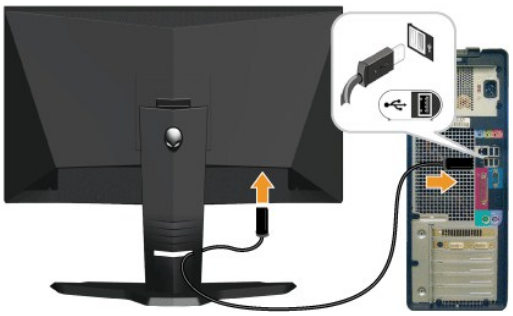
NOTE: The graphics above are used for the purpose of illustration only. Appearance of your computer may vary.

Connecting the Audio Cable

Connect one end of the audio cable to the green audio connector on your computer and the other end to the audio in connector on your monitor.

Connecting the USB Cable

Connect one end of the USB cable that shipped with your monitor to the USB upstream port (see bottom view) on your monitor, and the other end to an availble USB port on your computer/device.



Organizing the Cables and Attaching the Cable Cover

After attaching all necessary cables to your monitor and computer (see Connecting Your Monitor for cable attachment), use the cable management slot to organize all cables as shown below.

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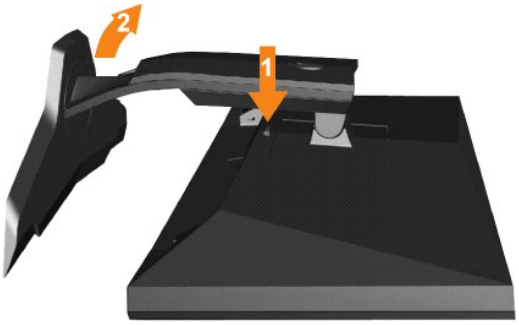
Attaching the Cable Cover

Attach the cable cover to the monitor after making the required cable connections to the monitor.

Removing the Stand

NOTE: To prevent scratches on the LCD screen while removing the stand, ensure that the monitor is placed on a clean surface.

To remove the stand:



1. Press and hold the stand release button.
2. Lift the stand up and away from the monitor .

Wall Mounting (Optional)

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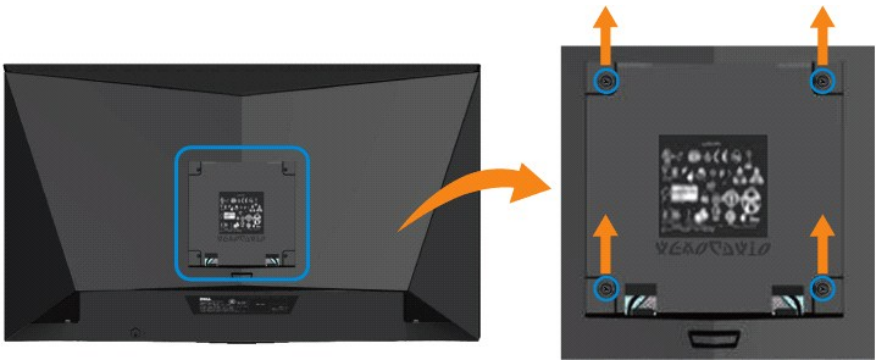

(Screw dimension: M4 x 10mm).

See the instructions that came with the VESA compatible base mounting kit.

1. Place the monitor panel on a soft cloth or cushion on a stable flat table.
2. Remove the stand.
3. Remove the four screws securing the plastic cover using a screwdriver.
4. Attach the mounting bracket from the wall mounting kit to the monitor.
5. Mount the monitor on the wall by following the instructions that came with the base mounting kit.

NOTE: Wall mounting should be done only with UL Listed Wall Mount Bracket with minimum weight/load bearing capacity of 5.21 kg.

Back to Contents Page

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Back to Contents Page

Troubleshooting

Alienware OptX™ AW2310 User's Guide

- Troubleshooting Your Monitor
- Common Problems
- Product-Specific Problems
- Universal Serial Bus Specific Problems

⚠ **WARNING:** Before you begin any of the procedures in this section, follow the Safety Instructions

Troubleshooting Your Monitor

Self-Test Feature Check

Your monitor provides a self-test feature that allows you to check whether your monitor is functioning properly. If your monitor and computer are properly connected but the monitor does not display an image, run the monitor self-test by performing the following steps:

1. Turn off your computer and the monitor.
2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove both Digital (white connector) and the HDMI cables from the back of computer.
3. Turn on the monitor.

The floating dialog box should appear on-screen (against a black background) if the monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains white. Also, depending upon the selected input, one of the dialogs shown below will continuously scroll through the screen.

or

NOTE: The floating dialog box also appears if the video cable is disconnected or damaged during normal operation.

4. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor does not display an image after the previous procedure, check your video controller and computer, because your monitor is functioning properly.

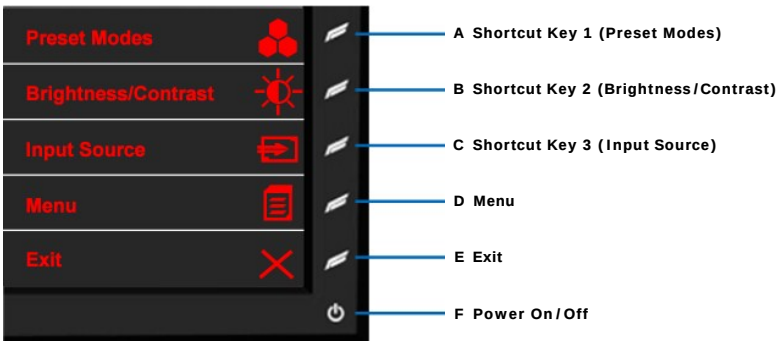
Built-in Diagnostics

Your monitor has a built-in diagnostic tool that helps you determine if the screen abnormality you are experiencing is an inherent problem with your monitor, or with your computer and video card.

NOTE: You can run the built-in diagnostics only when the video cable is unplugged and the monitor is in *self-test mode*.

To run the built-in diagnostics:

1. Ensure that the screen is clean (no dust particles on the surface of the screen).
2. Unplug the video cable(s) from the back of the computer or monitor. The monitor then goes into the self-test mode.
3. Touch and hold the **A** and **D** controls on the front panel, simultaneously for 2 seconds. A gray screen appears.



4. Carefully inspect the screen for abnormalities.
5. Touch the **D** control on the front panel again. The color of the screen changes to red.
6. Inspect the display for any abnormalities.
7. Repeat steps 5 and 6 to inspect the display in green, blue, and white colored screens.

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The test is complete when the white screen appears. To exit, touch the **D** control again.

If you do not detect any screen abnormalities upon using the built-in diagnostic tool, the monitor is functioning properly. Check the video card and computer.

Common Problems

The following table contains general information about common monitor problems you might encounter and the possible solutions.

Common Symptoms	What You Experience	Possible Solutions
No Video/Power LED off	No picture	ı Ensure that the video cable connecting the monitor and the computer is properly connected and secure. ı Verify that the power outlet is functioning properly by using any other electrical equipment.
No Video/Power LED on	No picture or no brightness	ı Increase brightness & contrast controls using the OSD. ı Perform monitor self-test feature check. ı Check for bent or broken pins in the video cable connector. ı Run the built-in diagnostics.
Poor Focus	Picture is fuzzy, blurry, or ghosting	ı Eliminate video extension cables. ı Reset the monitor to Factory Settings. ı Change the video resolution to the correct aspect ratio (Fill/Aspect/4:3).
Shaky/Jittery Video	Wavy picture or fine movement	ı Reset the monitor to Factory Settings. ı Check environmental factors. ı Relocate the monitor and test it in another room.
Missing Pixels	LCD screen has spots	ı Cycle power on-off. ı Pixel that is permanently off is a natural defect that can occur in LCD technology. ı Run the built-in diagnostics.
Stuck-on Pixels	LCD screen has bright	ı Cycle power on-off.

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	spots	• Pixel that is permanently off is a natural defect that can occur in LCD technology. • Run the built-in diagnostics.
Brightness Problems	Picture too dim or too bright	• Reset the monitor to Factory Settings. • Adjust brightness & contrast controls using the OSD.
Geometric Distortion	Screen not centered correctly	• Reset the monitor to Factory Settings.
Horizontal/Vertical Lines	Screen has one or more lines	• Reset the monitor to Factory Settings. • Perform monitor self-test feature check and determine if these lines are also in self-test mode.

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Back to Contents Page

Setting for Stereoscopic 3D Gaming

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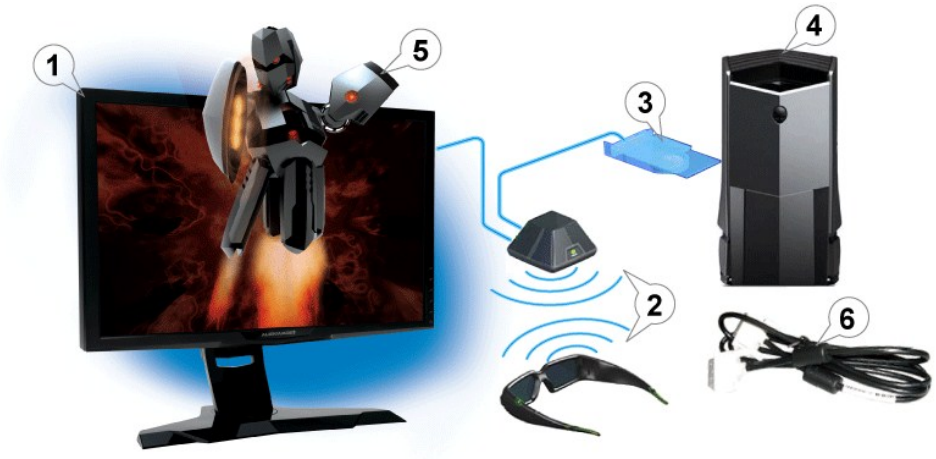
Requirements for stereoscopic 3D gaming

Please see below requirements for stereoscopic 3D gaming.

NOTE: 3D is only supported when using a DVI dual link cable.



1. Alienware OptX™ AW2310 120 Hz Flat Panel Monitor.
2. NVIDIA® GeForce® 3D Vision Kit (not included with your monitor).
3. Compatible NVIDIA GPU (not included with your monitor).
   •Visit www.nvidia.com/3dvision for full list of supported cards.
4. Microsoft® Windows Vista® or Windows® 7 pre-installed on your computer (not included with your monitor).
5. Visit **www.nvidia.com/3dvision** for a full list of supported games (not included with your monitor).
6. DVI dual link cable shipped in your packing contents allows you to connect directly from your computer or game console.

Back to Contents Page

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